

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

10/516,705

Source:

PCT

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12-20-04

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RAW SEQUENCE LISTING

DATE: 12/20/2004

PATENT APPLICATION: US/10/516,705

TIME: 12:25:41

Input Set : A:\3056us0PSEQ.txt

Output Set: N:\CRF4\12202004\J516705.raw

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3 <110> APPLICANT: HARA, Takahito
4     KUSAKA, Masami
5     MIYAZAKI, Junichi
7 <120> TITLE OF INVENTION: Mutated Androgen Receptor, Cancer Cells Expressing Same,
8     Production Method Thereof and Use Thereof
10 <130> FILE REFERENCE: 3056USOP
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/516,705
C--> 12 <141> CURRENT FILING DATE: 2004-12-02
12 <150> PRIOR APPLICATION NUMBER: PCT/JP03/06942
13 <151> PRIOR FILING DATE: 2003-06-02
15 <150> PRIOR APPLICATION NUMBER: JP 2002-162206
16 <151> PRIOR FILING DATE: 2002-06-03
18 <150> PRIOR APPLICATION NUMBER: JP 2002-255612
19 <151> PRIOR FILING DATE: 2002-08-30
21 <160> NUMBER OF SEQ ID NOS: 6
23 <170> SOFTWARE: PatentIn version 3.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 2775
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo sapiens
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (1)..(2775)
33 <223> OTHER INFORMATION:
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36 atg gaa gtg cag tta ggg ctg gga agg gtc tac cct cgg ccg ccg tcc      48
37 Met Glu Val Gln Leu Gly Leu Gly Arg Val Tyr Pro Arg Pro Pro Ser
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39 aag acc tac cga gga gct ttc cag aat ctg ttc cag agc gtg cgc gaa      96
40 Lys Thr Tyr Arg Gly Ala Phe Gln Asn Leu Phe Gln Ser Val Arg Glu
41          20          25          30
42 gtg atc cag aac ccg ggc ccc agg cac cca gag gcc gcg agc gca gca      144
43 Val Ile Gln Asn Pro Gly Pro Arg His Pro Glu Ala Ala Ser Ala Ala
44          35          40          45
45 cct ccc ggc gcc agt ttg ctg ctg ctg cag cag cag cag cag cag cag      192
46 Pro Pro Gly Ala Ser Leu Leu Leu Leu Gln Gln Gln Gln Gln Gln Gln
47 50          55          60
48 cag cag cag cag cag cag cag cag cag cag cag cag cag cag cag      240
49 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
50 65          70          75          80
51 cag cag cag caa gag act agc ccc agg cag cag cag cag cag cag ggt      288
52 Gln Gln Gln Gln Glu Thr Ser Pro Arg Gln Gln Gln Gln Gln Gln Gly
53          85          90          95

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| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 54 | gag | gat | ggt | tct | ccc | caa | gcc | cat | cgt | aga | ggc | ccc | aca | ggc | tac | ctg | 336 |
| 55 | Glu | Asp | Gly | Ser | Pro | Gln | Ala | His | Arg | Arg | Gly | Pro | Thr | Gly | Tyr | Leu | |
| 56 | | | | 100 | | | | | 105 | | | | 110 | | | | |
| 57 | gtc | ctg | gat | gag | gaa | cag | caa | cct | tca | cag | ccg | cag | tcg | gcc | ctg | gag | 384 |
| 58 | Val | Leu | Asp | Glu | Glu | Gln | Gln | Pro | Ser | Gln | Pro | Gln | Ser | Ala | Leu | Glu | |
| 59 | | | 115 | | | | | 120 | | | | | 125 | | | | |
| 60 | tgc | cac | ccc | gag | aga | ggt | tgc | gtc | cca | gag | cct | gga | gcc | gcc | gtg | gcc | 432 |
| 61 | Cys | His | Pro | Glu | Arg | Gly | Cys | Val | Pro | Glu | Pro | Gly | Ala | Ala | Val | Ala | |
| 62 | | 130 | | | | | 135 | | | | | 140 | | | | | |
| 63 | gcc | agc | aag | ggg | ctg | ccg | cag | cag | ctg | cca | gca | cct | ccg | gac | gag | gat | 480 |
| 64 | Ala | Ser | Lys | Gly | Leu | Pro | Gln | Gln | Leu | Pro | Ala | Pro | Pro | Asp | Glu | Asp | |
| 65 | 145 | | | | 150 | | | | 155 | | | | 160 | | | | |
| 66 | gac | tca | gct | gcc | cca | tcc | acg | ttg | tcc | ctg | ctg | ggc | ccc | act | ttc | ccc | 528 |
| 67 | Asp | Ser | Ala | Ala | Pro | Ser | Thr | Leu | Ser | Leu | Leu | Gly | Pro | Thr | Phe | Pro | |
| 68 | | | 165 | | | | | 170 | | | | 175 | | | | | |
| 69 | ggc | tta | agc | agc | tgc | tcc | gct | gac | ctt | aaa | gac | atc | ctg | agc | gag | gcc | 576 |
| 70 | Gly | Leu | Ser | Ser | Cys | Ser | Ala | Asp | Leu | Lys | Asp | Ile | Leu | Ser | Glu | Ala | |
| 71 | | | 180 | | | | | 185 | | | | 190 | | | | | |
| 72 | agc | acc | atg | caa | ctc | ctt | cag | caa | cag | cag | cag | gaa | gca | gta | tcc | gaa | 624 |
| 73 | Ser | Thr | Met | Gln | Leu | Leu | Gln | Gln | Gln | Gln | Gln | Glu | Ala | Val | Ser | Glu | |
| 74 | | | 195 | | | | 200 | | | | | 205 | | | | | |
| 75 | ggc | agc | agc | agc | ggg | aga | gcg | agg | gag | gcc | tcg | ggg | gct | ccc | act | tcc | 672 |
| 76 | Gly | Ser | Ser | Ser | Gly | Arg | Ala | Arg | Glu | Ala | Ser | Gly | Ala | Pro | Thr | Ser | |
| 77 | | 210 | | | | 215 | | | 220 | | | | | | | | |
| 78 | tcc | aag | gac | aat | tac | tta | ggg | ggc | act | tcg | acc | att | tct | gac | aac | gcc | 720 |
| 79 | Ser | Lys | Asp | Asn | Tyr | Leu | Gly | Gly | Thr | Ser | Thr | Ile | Ser | Asp | Asn | Ala | |
| 80 | 225 | | | | 230 | | | | 235 | | | | 240 | | | | |
| 81 | aag | gag | ttg | tgt | aag | gca | gtg | tcg | gtg | tcc | atg | ggc | ctg | ggt | gtg | gag | 768 |
| 82 | Lys | Glu | Leu | Cys | Lys | Ala | Val | Ser | Val | Ser | Met | Gly | Leu | Gly | Val | Glu | |
| 83 | | | 245 | | | | | 250 | | | | 255 | | | | | |
| 84 | gcg | ttg | gag | cat | ctg | agt | cca | ggg | gaa | cag | ctt | cgg | ggg | gat | tgc | atg | 816 |
| 85 | Ala | Leu | Glu | His | Leu | Ser | Pro | Gly | Glu | Gln | Leu | Arg | Gly | Asp | Cys | Met | |
| 86 | | | 260 | | | | 265 | | | | 270 | | | | | | |
| 87 | tac | gcc | cca | ctt | ttg | gga | gtt | cca | ccc | gct | gtg | cgt | ccc | act | cct | tgt | 864 |
| 88 | Tyr | Ala | Pro | Leu | Leu | Gly | Val | Pro | Pro | Ala | Val | Arg | Pro | Thr | Pro | Cys | |
| 89 | | | 275 | | | | 280 | | | | 285 | | | | | | |
| 90 | gcc | cca | ttg | gcc | gaa | tgc | aaa | ggt | tct | ctg | cta | gac | gac | agc | gca | ggc | 912 |
| 91 | Ala | Pro | Leu | Ala | Glu | Cys | Lys | Gly | Ser | Leu | Leu | Asp | Asp | Ser | Ala | Gly | |
| 92 | | 290 | | | | 295 | | | 300 | | | | | | | | |
| 93 | aag | agc | act | gaa | gat | act | gct | gag | tat | tcc | cct | ttc | aag | gga | ggt | tac | 960 |
| 94 | Lys | Ser | Thr | Glu | Asp | Thr | Ala | Glu | Tyr | Ser | Pro | Phe | Lys | Gly | Gly | Tyr | |
| 95 | 305 | | | | 310 | | | | 315 | | | | 320 | | | | |
| 96 | acc | aaa | ggg | cta | gaa | ggc | gag | agc | cta | ggc | tgc | tct | ggc | agc | gct | gca | 1008 |
| 97 | Thr | Lys | Gly | Leu | Glu | Gly | Glu | Ser | Leu | Gly | Cys | Ser | Gly | Ser | Ala | Ala | |
| 98 | | | 325 | | | | 330 | | | | 335 | | | | | | |
| 99 | gca | ggg | agc | tcc | ggg | aca | ctt | gaa | ctg | ccg | tct | acc | ctg | tct | ctc | tac | 1056 |
| 100 | Ala | Gly | Ser | Ser | Gly | Thr | Leu | Glu | Leu | Pro | Ser | Thr | Leu | Ser | Leu | Tyr | |
| 101 | | | 340 | | | | 345 | | | | 350 | | | | | | |
| 102 | aag | tcc | gga | gca | ctg | gac | gag | gca | gct | gcg | tac | cag | agt | cgc | gac | tac | 1104 |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 103 | Lys | Ser | Gly | Ala | Leu | Asp | Glu | Ala | Ala | Ala | Tyr | Gln | Ser | Arg | Asp | Tyr | |
| 104 | | | 355 | | | | | 360 | | | | | 365 | | | | |
| 105 | tac | aac | ttt | cca | ctg | gct | ctg | gcc | gga | ccg | ccg | ccc | cct | ccg | ccg | cct | 1152 |
| 106 | Tyr | Asn | Phe | Pro | Leu | Ala | Leu | Ala | Gly | Pro | Pro | Pro | Pro | Pro | Pro | Pro | |
| 107 | | 370 | | | | | 375 | | | | | 380 | | | | | |
| 108 | ccc | cat | ccc | cac | gct | cgc | atc | aag | ctg | gag | aac | ccg | ctg | gac | tac | ggc | 1200 |
| 109 | Pro | His | Pro | His | Ala | Arg | Ile | Lys | Leu | Glu | Asn | Pro | Leu | Asp | Tyr | Gly | |
| 110 | 385 | | | | | 390 | | | | | 395 | | | | 400 | | |
| 111 | agc | gcc | tgg | gcg | gct | gcg | gcg | gcg | cag | tgc | cgc | tat | ggg | gac | ctg | gcg | 1248 |
| 112 | Ser | Ala | Trp | Ala | Ala | Ala | Ala | Ala | Gln | Cys | Arg | Tyr | Gly | Asp | Leu | Ala | |
| 113 | | | | 405 | | | | | | 410 | | | | | 415 | | |
| 114 | agc | ctg | cat | ggc | gcg | ggt | gca | gcg | gga | ccc | ggt | tct | ggg | tca | ccc | tca | 1296 |
| 115 | Ser | Leu | His | Gly | Ala | Gly | Ala | Ala | Gly | Pro | Gly | Ser | Gly | Ser | Pro | Ser | |
| 116 | | | 420 | | | | | | 425 | | | | 430 | | | | |
| 117 | gcc | gcc | gct | tcc | tca | tcc | tgg | cac | act | ctc | ttc | aca | gcc | gaa | gaa | ggc | 1344 |
| 118 | Ala | Ala | Ala | Ser | Ser | Ser | Trp | His | Thr | Leu | Phe | Thr | Ala | Glu | Glu | Gly | |
| 119 | | 435 | | | | | 440 | | | | | 445 | | | | | |
| 120 | cag | ttg | tat | gga | ccg | tgt | ggt | ggt | ggt | ggg | ggt | ggt | ggc | ggc | ggc | ggc | 1392 |
| 121 | Gln | Leu | Tyr | Gly | Pro | Cys | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Gly | |
| 122 | | 450 | | | | 455 | | | | 460 | | | | | | | |
| 123 | ggc | ggc | ggc | ggc | ggc | ggc | ggc | ggc | ggc | ggc | ggc | ggc | ggc | gag | gcg | gga | 1440 |
| 124 | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Glu | Ala | Gly | |
| 125 | 465 | | | | 470 | | | | | 475 | | | | | 480 | | |
| 126 | gct | gta | gcc | ccc | tac | ggc | tac | act | cgg | ccc | cct | cag | ggg | ctg | gcg | ggc | 1488 |
| 127 | Ala | Val | Ala | Pro | Tyr | Gly | Tyr | Thr | Arg | Pro | Pro | Gln | Gly | Leu | Ala | Gly | |
| 128 | | | 485 | | | | | | 490 | | | | | 495 | | | |
| 129 | cag | gaa | agc | gac | ttc | acc | gca | cct | gat | gtg | tgg | tac | cct | ggc | ggc | atg | 1536 |
| 130 | Gln | Glu | Ser | Asp | Phe | Thr | Ala | Pro | Asp | Val | Trp | Tyr | Pro | Gly | Gly | Met | |
| 131 | | | 500 | | | | | | 505 | | | | 510 | | | | |
| 132 | gtg | agc | aga | gtg | ccc | tat | ccc | agt | ccc | act | tgt | gtc | aaa | agc | gaa | atg | 1584 |
| 133 | Val | Ser | Arg | Val | Pro | Tyr | Pro | Ser | Pro | Thr | Cys | Val | Lys | Ser | Glu | Met | |
| 134 | | 515 | | | | | 520 | | | | | 525 | | | | | |
| 135 | ggc | ccc | tgg | atg | gat | agc | tac | tcc | gga | cct | tac | ggg | gac | atg | cgt | ttg | 1632 |
| 136 | Gly | Pro | Trp | Met | Asp | Ser | Tyr | Ser | Gly | Pro | Tyr | Gly | Asp | Met | Arg | Leu | |
| 137 | | 530 | | | | 535 | | | | 540 | | | | | | | |
| 138 | gag | act | gcc | agg | gac | cat | gtt | ttg | ccc | att | gac | tat | tac | ttt | cca | ccc | 1680 |
| 139 | Glu | Thr | Ala | Arg | Asp | His | Val | Leu | Pro | Ile | Asp | Tyr | Tyr | Phe | Pro | Pro | |
| 140 | 545 | | | | 550 | | | | 555 | | | | | | 560 | | |
| 141 | cag | aag | acc | tgc | ctg | atc | tgt | gga | gat | gaa | gct | tct | ggg | tgt | cac | tat | 1728 |
| 142 | Gln | Lys | Thr | Cys | Leu | Ile | Cys | Gly | Asp | Glu | Ala | Ser | Gly | Cys | His | Tyr | |
| 143 | | | 565 | | | | | | 570 | | | | | 575 | | | |
| 144 | gga | gct | ctc | aca | tgt | gga | agc | tgc | aag | gtc | ttc | ttc | aaa | aga | gcc | gct | 1776 |
| 145 | Gly | Ala | Leu | Thr | Cys | Gly | Ser | Cys | Lys | Val | Phe | Phe | Lys | Arg | Ala | Ala | |
| 146 | | | 580 | | | | | 585 | | | | | 590 | | | | |
| 147 | gaa | ggg | aaa | cag | aag | tac | ctg | tgc | gcc | agc | aga | aat | gat | tgc | act | att | 1824 |
| 148 | Glu | Gly | Lys | Gln | Lys | Tyr | Leu | Cys | Ala | Ser | Arg | Asn | Asp | Cys | Thr | Ile | |
| 149 | | | 595 | | | | 600 | | | | | 605 | | | | | |
| 150 | gat | aaa | ttc | cga | agg | aaa | aat | tgt | cca | tct | tgt | cgt | ctt | cgg | aaa | tgt | 1872 |
| 151 | Asp | Lys | Phe | Arg | Arg | Lys | Asn | Cys | Pro | Ser | Cys | Arg | Leu | Arg | Lys | Cys | |

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| 152 | 610 | 615 | 620 | |
| 153 | tat gaa gca ggg atg act ctg gga gcc cgg aag ctg aag aaa ctt ggt | 1920 | | |
| 154 | Tyr Glu Ala Gly Met Thr Leu Gly Ala Arg Lys Leu Lys Lys Leu Gly | | | |
| 155 | 625 630 635 640 | | | |
| 156 | aat ctg aaa cta cag gag gaa gga gag gct tcc agc acc acc agc ccc | 1968 | | |
| 157 | Asn Leu Lys Leu Gln Glu Glu Gly Glu Ala Ser Ser Thr Thr Ser Pro | | | |
| 158 | 645 650 655 | | | |
| 159 | act gag gag aca acc cag aag ctg aca gtg tca cac att gaa ggc tat | 2016 | | |
| 160 | Thr Glu Glu Thr Thr Gln Lys Leu Thr Val Ser His Ile Glu Gly Tyr | | | |
| 161 | 660 665 670 | | | |
| 162 | gaa tgt cag ccc atc ttt ctg aat gtc ctg gaa gcc att gag cca ggt | 2064 | | |
| 163 | Glu Cys Gln Pro Ile Phe Leu Asn Val Leu Glu Ala Ile Glu Pro Gly | | | |
| 164 | 675 680 685 | | | |
| 165 | gta gtg tgt gct gga cac gac aac aac cag ccc gac tcc ttt gca gcc | 2112 | | |
| 166 | Val Val Cys Ala Gly His Asp Asn Asn Gln Pro Asp Ser Phe Ala Ala | | | |
| 167 | 690 695 700 | | | |
| 168 | ttg ctc tct agc ctc aat gaa ctg gga gag aga cag ctt gta cac gtg | 2160 | | |
| 169 | Leu Leu Ser Ser Leu Asn Glu Leu Gly Glu Arg Gln Leu Val His Val | | | |
| 170 | 705 710 715 720 | | | |
| 171 | gtc aag tgg gcc aag gcc ttg cct ggc ttc cgc aac tta cac gtg gac | 2208 | | |
| 172 | Val Lys Trp Ala Lys Ala Leu Pro Gly Phe Arg Asn Leu His Val Asp | | | |
| 173 | 725 730 735 | | | |
| 174 | gac cag atg gct gtc att cag tac tcc tgg atg ggg ctc atg gtg ttt | 2256 | | |
| 175 | Asp Gln Met Ala Val Ile Gln Tyr Ser Trp Met Gly Leu Met Val Phe | | | |
| 176 | 740 745 750 | | | |
| 177 | gcc atg ggc tgg cga tcc ttc acc aat gtc aac tcc agg atg ctc tac | 2304 | | |
| 178 | Ala Met Gly Trp Arg Ser Phe Thr Asn Val Asn Ser Arg Met Leu Tyr | | | |
| 179 | 755 760 765 | | | |
| 180 | ttc gcc cct gat ctg gtt ttc aat gag tac cgc atg cac aag tcc cgg | 2352 | | |
| 181 | Phe Ala Pro Asp Leu Val Phe Asn Glu Tyr Arg Met His Lys Ser Arg | | | |
| 182 | 770 775 780 | | | |
| 183 | atg tac agc cag tgt gtc cga atg agg cac ctc tct caa gag ttt gga | 2400 | | |
| 184 | Met Tyr Ser Gln Cys Val Arg Met Arg His Leu Ser Gln Glu Phe Gly | | | |
| 185 | 785 790 795 800 | | | |
| 186 | tgg ctc caa atc acc ccc cag gaa ttc ctg tgc atg aaa gca ctg cta | 2448 | | |
| 187 | Trp Leu Gln Ile Thr Pro Gln Glu Phe Leu Cys Met Lys Ala Leu Leu | | | |
| 188 | 805 810 815 | | | |
| 189 | ctc ttc agc att att cca gtg gat ggg ctg aaa aat caa aaa ttc ttt | 2496 | | |
| 190 | Leu Phe Ser Ile Ile Pro Val Asp Gly Leu Lys Asn Gln Lys Phe Phe | | | |
| 191 | 820 825 830 | | | |
| 192 | gat gaa ctt cga atg aac tac atc aag gaa ctc gat cgt atc att gca | 2544 | | |
| 193 | Asp Glu Leu Arg Met Asn Tyr Ile Lys Glu Leu Asp Arg Ile Ile Ala | | | |
| 194 | 835 840 845 | | | |
| 195 | tgc aaa aga aaa aat ccc aca tcc tgc tca aga cgc ttc tac cag ctc | 2592 | | |
| 196 | Cys Lys Arg Lys Asn Pro Thr Ser Cys Ser Arg Phe Tyr Gln Leu | | | |
| 197 | 850 855 860 | | | |
| 198 | acc aag ctc ctg gac tcc gtg cag cct att gcg aga gag ctg cat cag | 2640 | | |
| 199 | Thr Lys Leu Leu Asp Ser Val Gln Pro Ile Ala Arg Glu Leu His Gln | | | |
| 200 | 865 870 875 880 | | | |

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201 ttc act ttt gac ctg cta atc aag tca cac atg gtg agc gtg gac ttt      2688
202 Phe Thr Phe Asp Leu Leu Ile Lys Ser His Met Val Ser Val Asp Phe
203      885      890      895
204 ccg gaa atg atg gca gag atc atc tct gtg caa gtg ccc aag atc ctt      2736
205 Pro Glu Met Met Ala Glu Ile Ile Ser Val Gln Val Pro Lys Ile Leu
206      900      905      910
207 tct ggg aaa gtc aag ccc atc tat ttc cac acc cag tga      2775
208 Ser Gly Lys Val Lys Pro Ile Tyr Phe His Thr Gln
209      915      920
212 <210> SEQ ID NO: 2
213 <211> LENGTH: 924
214 <212> TYPE: PRT
215 <213> ORGANISM: Homo sapiens
217 <400> SEQUENCE: 2
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219 1      5      10      15
220 Lys Thr Tyr Arg Gly Ala Phe Gln Asn Leu Phe Gln Ser Val Arg Glu
221      20      25      30
222 Val Ile Gln Asn Pro Gly Pro Arg His Pro Glu Ala Ala Ser Ala Ala
223      35      40      45
224 Pro Pro Gly Ala Ser Leu Leu Leu Leu Gln Gln Gln Gln Gln Gln Gln
225      50      55      60
226 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
227 65      70      75      80
228 Gln Gln Gln Gln Glu Thr Ser Pro Arg Gln Gln Gln Gln Gln Gln Gly
229      85      90      95
230 Glu Asp Gly Ser Pro Gln Ala His Arg Arg Gly Pro Thr Gly Tyr Leu
231      100      105      110
232 Val Leu Asp Glu Glu Gln Gln Pro Ser Gln Pro Gln Ser Ala Leu Glu
233      115      120      125
234 Cys His Pro Glu Arg Gly Cys Val Pro Glu Pro Gly Ala Ala Val Ala
235      130      135      140
236 Ala Ser Lys Gly Leu Pro Gln Gln Leu Pro Ala Pro Pro Asp Glu Asp
237 145      150      155      160
238 Asp Ser Ala Ala Pro Ser Thr Leu Ser Leu Leu Gly Pro Thr Phe Pro
239      165      170      175
240 Gly Leu Ser Ser Cys Ser Ala Asp Leu Lys Asp Ile Leu Ser Glu Ala
241      180      185      190
242 Ser Thr Met Gln Leu Leu Gln Gln Gln Gln Gln Glu Ala Val Ser Glu
243      195      200      205
244 Gly Ser Ser Ser Gly Arg Ala Arg Glu Ala Ser Gly Ala Pro Thr Ser
245      210      215      220
246 Ser Lys Asp Asn Tyr Leu Gly Gly Thr Ser Thr Ile Ser Asp Asn Ala
247 225      230      235      240
248 Lys Glu Leu Cys Lys Ala Val Ser Val Ser Met Gly Leu Gly Val Glu
249      245      250      255
250 Ala Leu Glu His Leu Ser Pro Gly Glu Gln Leu Arg Gly Asp Cys Met
251      260      265      270
252 Tyr Ala Pro Leu Leu Gly Val Pro Pro Ala Val Arg Pro Thr Pro Cys

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:35 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:33